

Serial No.: 09/189,112

Attorney Docket No.: 1998P07917US

IN THE CLAIMS:

This listing of the claims will replace all prior versions and listings of the claims in the application:

1. (Previously Presented) A telecommunications system, comprising:
a private branch exchange (PBX) coupled to a local area network (LAN), said PBX including a telephony feature access (TFA) gateway;
a server coupled to said local area network, said server configured to provide call processing via said LAN and configured to monitor bandwidth usage of calls it has processed on said LAN;
one or more first telephony devices of a first type operably coupled to said TFA gateway, said TFA gateway configured to provide for call processing for said one or more first telephony devices of said first type of calls on said LAN;
one or more second telephony devices of a second type operably coupled to said server, said server configured to provide for call processing for said one or more second telephony devices of said second type of calls on said LAN; and
means associated with said server for accounting for bandwidth requirements of said one or more first telephony devices of said first type operably coupled to said TFA gateway on said LAN and for calls for which said server has not performed said call processing when processing calls for said one or more second telephony devices of said second type.
2. (Original) The telecommunications system according to claim 1, said server being an H.323 compatible server.
3. (Original) The telecommunications system according to claim 1, said accounting means including means associated with said server for aborting a call being processed by said PBX.

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4. (Original) The telecommunications system according to claim 1, said accounting means including means for preventing a call being processed by said server on said LAN.

5. (Previously Presented) The telecommunications system according to claim 2, wherein said one or more second telephony devices coupled to said server for call processing are able to communicate with said H.323 server.

6. (Currently Amended) A method for communicating in a system including a PBX and a telephony-over-LAN (ToL) [[ToL]] server coupled to a LAN, said PBX adapted to process calls for telephony feature access (TFA) devices on said LAN, said ToL server adapted to process calls for ToL devices on said LAN, said method comprising:

informing said ToL server of a call setup message associated with said PBX and TFA devices;

accessing a database at said ToL server to determine if bandwidth is available on said LAN for a call involving TFA devices and processed by said PBX;

sending an abort message to abort said call if bandwidth is not available; and

said ToL server accounting for PBX user bandwidth usage for TFA devices when processing a ToL call for ToL devices.

7. (Previously Presented) The method according to claim 6, further comprising receiving said call setup message at said PBX; and wherein said abort message is sent to said PBX.

8. (Currently Amended) A method for communicating in a system including a PBX and a telephony-over-LAN (ToL) [[ToL]] server coupled to a LAN, said PBX adapted to process calls for telephony feature access (TFA) devices on said LAN, said ToL server adapted to process calls for ToL devices on said LAN, said method comprising:

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informing said ToL server of a call setup message associated with said PBX and TFA devices;

accessing a database at said ToL server to determine if bandwidth is available on said LAN for a call processed by said PBX;

sending an abort message to abort said call if bandwidth is not available; and

said ToL server accounting for PBX user bandwidth usage when processing a ToL call;

receiving said call setup message at said PBX; and wherein said abort message is sent to said PBX; and

further including informing said ToL server when said call processed by said PBX is completed.

9. (Currently Amended) A method for communicating in a system including a PBX and a telephony-over-LAN (ToL) [[ToL]] server coupled to a LAN, said PBX adapted to process calls for telephony feature access (TFA) devices on said LAN, said ToL server adapted to process calls for ToL devices on said LAN, said method comprising:

informing said ToL server of a call setup message associated with said PBX and TFA devices;

accessing a database at said ToL server to determine if bandwidth is available on said LAN for a call processed by said PBX;

sending an abort message to abort said call if bandwidth is not available;

said ToL server accounting for PBX user bandwidth usage when processing a ToL call;

receiving said call setup message at said PBX; and wherein said abort message is sent to said PBX;

informing said ToL server when said call processed by said PBX is completed;

including said ToL server returning an acknowledge message to said PBX when said ToL server is informed that said call is completed.

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10. (Currently Amended) A method for communicating in a system including a PBX and a telephony-over-LAN (ToL) [[ToL]] server coupled to a LAN, said method comprising:

informing said ToL server of a call setup message;

accessing a database at said ToL server to determine if bandwidth is available on said LAN for a call processed by said PBX;

sending an abort message to abort said call if bandwidth is not available;

further comprising receiving said call setup message at said PBX, wherein said abort message is sent to said PBX;

including informing said ToL server when a call processed by said PBX is completed; and

including said ToL server accounting for PBX user bandwidth usage when processing a ToL call.

11. (Previously Presented) The method according to claim 10 wherein said informing step is performed by a client making said call processed by said PBX, and wherein said abort message is sent to said client.

12. (Original) The method according to claim 11 wherein said ToL server is H.323 compatible.

13. (Original) The method according to claim 7 wherein said ToL server and said ToL devices are H.323 compatible.

14. (Previously Presented) A system for processing telephone calls, comprising:
a private branch exchange (PBX) coupled to a local area network (LAN), said PBX having associated therewith a telephony feature access (TFA) gateway, said PBX and TFA gateway adapted to provide call processing for TFA telephones on said LAN;
a telephony over LAN (ToL) gatekeeper coupled to said LAN and configured to provide call control services for ToL phone calls on said LAN; and

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means associated with said ToL gatekeeper for monitoring bandwidth usage of telephone calls between TFA telephones for which said ToL gatekeeper has not provided call control services and processed via said TFA gateway;

wherein said ToL gatekeeper is adapted to account for PBX user bandwidth usage on said LAN when processing a ToL call between ToL telephones.

15. (Previously Presented) The system according to claim 14, said monitoring means including means for aborting a call between TFA telephones and processed via said TFA gateway if bandwidth is unavailable.

16. (Previously Presented) The system according to claim 14, said monitoring means including means for aborting at least one of said ToL phone calls if bandwidth is not available.

17. (Original) The system according to claim 14, including a TFA client that is H.323 compliant but receives call functions from said TFA gateway and PBX.

18. (Previously Presented) A system for processing telephone calls, comprising:
a private branch exchange (PBX) coupled to a local area network (LAN), said PBX having associated therewith a telephony feature access (TFA) gateway, said PBX and TFA gateway adapted to provide call processing for TFA telephones on said LAN;
a telephony over LAN (ToL) gatekeeper coupled to said LAN and configured to provide call control services for ToL phone calls on said LAN; and

means associated with said ToL gatekeeper for monitoring bandwidth usage of telephone calls for which said ToL gatekeeper has not provided call control services and processed via said TFA gateway;

wherein said ToL gatekeeper is adapted to account for PBX user bandwidth usage on said LAN when processing ToL phone calls;

wherein said gatekeeper is configured to abort a ToL call but not a TFA call if bandwidth exceeds a predetermined usage.

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19. (Previously Presented) The system according to claim 14, wherein a TFA client is configured to provide a call request to said gatekeeper and, if said gatekeeper determines that bandwidth is available, provide a subsequent call request to said TFA gateway.

20. (Previously Presented) The system according to claim 14, wherein a TFA client is configured to submit a call request to said TFA gateway and inform said gatekeeper of said call request.

21. (Currently Amended) A method for communicating in a system including a PBX and a telephony-over-LAN (ToL) [[ToL]] server coupled to a LAN, said method comprising:

informing said ToL server of a call setup message for a call being handled by said PBX on said LAN;

accessing a database at said ToL server to determine bandwidth available on said LAN for said call processed by said PBX;

said ToL server accounting for PBX user bandwidth usage when processing a ToL call; and

aborting a ToL call but not a telephony feature access (TFA) [[TFA]] call if bandwidth exceeds a predetermined usage.

22. (Previously Presented) The system according to claim 18, wherein a TFA client is configured to provide a call request to said gatekeeper and, if said gatekeeper determines that bandwidth is available, provide a subsequent call request to said TFA gateway.

23. (Previously Presented) The system according to claim 18, wherein a TFA client is configured to submit a call request to said TFA gateway and inform said gatekeeper of said call request.

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24. (Previously Presented) The system according to claim 18, including a TFA client that is H.323 compliant but receives call functions from said TFA gateway and PBX.

25. (Currently Amended) A telecommunications system, comprising:

- a private branch exchange (PBX) coupled to a local area network (LAN), said PBX including a telephony feature access (TFA) gateway;
- a server coupled to said local area network, said server configured to provide call processing via said LAN and configured to monitor bandwidth usage of calls it has processed on said LAN;
- one or more telephony devices operably coupled to said TFA gateway for call processing;
- one or more second telephony devices operably coupled to said server for call processing; and
- means associated with said server for accounting for bandwidth requirements of said one or more telephony devices operably coupled to said TFA gateway on said LAN and for calls for which said server has not performed said call processing when processing calls for said one or more second telephony devices;
- wherein said server is adapted to account for PBX user bandwidth usage on said LAN when processing telephony-over-LAN (ToL) [[ToL]] phone calls;
- wherein said server is configured to abort a ToL call but not a TFA call if bandwidth exceeds a predetermined usage.

26. (Currently Amended) A method for communicating in a system including a PBX and a telephony-over-LAN (ToL) [[ToL]] server coupled to a LAN, said PBX adapted to process calls for telephony feature access (TFA) devices on said LAN, said ToL server adapted to process calls for ToL devices on said LAN, said method comprising:

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informing said ToL server of a call setup message associated with said PBX and TFA devices;

accessing a database at said ToL server to determine if bandwidth is available on said LAN for a call processed by said PBX;

sending an abort message to abort said call if bandwidth is not available;

said ToL server accounting for PBX user bandwidth usage when processing a ToL call; and

aborting a ToL call but not a TFA call if bandwidth exceeds a predetermined usage.

27. (Previously Presented) The method according to claim 26, further comprising receiving said call setup message at said PBX; and wherein said abort message is sent to said PBX.

28. (Previously Presented) The method according to claim 27, including informing said ToL server when said call processed by said PBX is completed.

29. (Previously Presented) The method according to claim 28, including said ToL server returning an acknowledge message to said PBX when said ToL server is informed that said call is completed.

30. (Currently Amended) A method for communicating in a system including a PBX and a telephony-over-LAN (ToL) [[ToL]] server coupled to a LAN, said method comprising:

informing said ToL server of a call setup message;

accessing a database at said ToL server to determine if bandwidth is available on said LAN for a call processed by said PBX;

sending an abort message to abort said call if bandwidth is not available;

further comprising receiving said call setup message at said PBX, wherein said abort message is sent to said PBX;

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including informing said ToL server when a call processed by said PBX is completed; and

including said ToL server accounting for PBX user bandwidth usage when processing a ToL call.

31. (Previously Presented) The method according to claim 30 wherein said informing is performed by a client making said call processed by said PBX, and wherein said abort message is sent to said client.

32. (Previously Presented) The method according to claim 31 wherein said ToL server is H.323 compatible.

33. (Currently Amended) A system, comprising:
a local area network;
a first local area network telephony system including a telephony feature access (TFA) gateway for first local area network telephony call processing for TFA telephony devices operable on said local area network;
a second local area network telephony system including a server for second local area network telephony call processing for telephony-over-LAN devices operable on said local area network; and
means associated with said server for accounting for first and second local area telephony system bandwidth usage on said local area network before allowing a call on said local area network using said first local area network telephony system.

34. (Currently Amended) A system including a PBX and a telephony-over-LAN (ToL) [[ToL]] server coupled to a LAN, comprising:
means for informing said ToL server of a call setup message for a call being handled by said PBX on said LAN;
means for accessing a database at said ToL server to determine bandwidth available on said LAN for said call processed by said PBX;

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said ToL server accounting for PBX user bandwidth usage when processing a ToL call; and

means for aborting a ToL call but not a telephony feature access (TFA) [[TFA]] call if bandwidth exceeds a predetermined usage.